8th Grade Math Summer Work

Name: _____ Date: _____

Evaluate the integers.

1.) $-6+5$

2.) $-18-14$

3.) $23+(-45)$

4.) $(-13)(8)$

5.) $-436 \div -8$

6.) $-78 \div 6$

Evaluate the fractions. Write your answer in simplest form.

7.) $\frac{7}{8}+\frac{5}{12}$

8.) $\frac{7}{9}-\frac{15}{27}$

9.) $\frac{3}{5} + \frac{3}{6}$

10.) $\frac{13}{15} - \frac{1}{6}$

11.) $\frac{5}{6} \bullet - 12$

12.) $\frac{3}{8} \div \frac{3}{4}$

13.) $- 1\frac{2}{3} \div (- 1\frac{1}{4})$

14.) $- 2\frac{7}{12} - 1\frac{1}{6}$

Complete the chart.

15-22.)

Fraction	Decimal	Percent
$\frac{3}{5}$		
		52%
	0.8	
$\frac{9}{20}$		
	0.79	
		65%
	0.05	
$\frac{12}{16}$		

Evaluate using the order of operations.

23.) $(11 - 8)(4 + 3) + 9 \bullet 6 - 2^6$

24.) $(2 + 39 + 13) \div 6(12 - 5)$

25.) $150 \div (6 + 3 \bullet 8) - 5^5$

26.) $5 \bullet 8 + 6 \div 6 - 12 \bullet 2$

Find the mean, median, mode, and range of the set of data.

27.) 25, 33, 25, 49, 25, 50, 32

Solve the equations for the given variable.

28.) $x - 11 = -5$

29.) $-51 = -3n$

30.) $3x - 1 = 11$

31.) $\frac{1}{4}x + 3 = -5$

32.) $\frac{m+11}{-4} = -15$

33.) $-1 = -8 + \frac{y}{-6}$

Evaluate the expression when x = 3 and y = − 5.

34.) $2x - y$

35.) $x^2 + y^3$

36.) $-2(y - 2x)$

Find the area of the following.

37.) A square with one side measuring 8 centimeters.

38.) An isosceles triangle with the legs measuring 10 inches and the hypotenuse measuring 14.1 inches.

39.) A circle with a diameter of 12 inches.